M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. 2nd and final Bill

225919

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency ..... Technical Manager - CWEMT) ICRED2

Date of commencement of work ..... D.O. Recording : 26/12/2018

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Name of work : Improvements to Roads and drains at Babanna Layout colony Roads in Ward no. 12, in Shettyhalli Sub-Division					
	Estimated cost Rs : 50.00 Lakhs					
	WB. No : 012-18-000050				P. Code : P-1878	
	Work order no : EE/DD/WO/324/2017-18 dt 22.03-2018					
①	Earthwork Excavation by manual means in ordinary soil					

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	involving in average horizontal timing upto 2 kms and an average lift upto 1.5 m, excavated surface levelled and sides neatly braced, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and directions of Engineer-in-charge of work.						
	Qty vide MB. no 1787/13-14/PF ① p.no 178647 689.76 m³ e					115.94/m³	127368.41
37)	Providing and laying in position plain cement concrete using M15 1:4:8 with OPC cement e/to lays with 40 mm nominal down size graded granite metal coarse aggregate e						

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
225920
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	0.85 m³ and fine aggregate e 0.57 m³ mixed concrete laid in layers not exceeding 15 cms in well compacted in foundations including cost of all materials, labour, mixing, moulding curing complete as per specifications and directions of Engineer in-charge of Works.						
	Qty vide MB. no. 1787/13-14/PF ② p.no. 178648 2105 m³ e					516.02/m³	1086231.66
③	Providing and laying in position reinforced cement concrete						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of design mix M 20 with ogc cement @ 320 kg/m³ with maximum dry size graded granite metal, coarse aggregate 0.89 m³ and fine aggregate 0.44 m³, using superplasticizers @ 1% by weight of cement. Note, machine mixed concrete laid in layers not exceeding 150 mm thick shall be allowed for all works in foundation for footings, pedestals, retaining walls, staircase, staircase walls, including all steel bars, cutting, bend, adjustments, pillar, posts, struts buttresses, string and lintel course etc complete as per specifications and direction of Engineer-in-charge of work.						

M. A. R. 57 (Rule 116) No. D
Measurement Book

225921

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(a)	fire-drawing Building	9 by as per MB 17 87			3.07	79.42 m²	
(b)	fire-drawing boundary wall		Prev. 178 m				
	across Road - R/S	2 a/1	30.00	0.15	0.75	6.30 m³	
		2 a/1	17.10	0.15	0.75	3.59	
	1st Cross. R/S. Road (L)	2 a/1	30.00	0.15	0.60	3.85	
		2 a/1	12.00	0.15	0.60	2.34	
	Cross-Road	2 a/1	33.30	0.15	0.60	6.19	
	2nd - Cross - Road -	2 a/2	30.00	0.15	0.60	12.22	
		2 a/2	12.30	0.15	0.75	4.28	
	3rd - Cross - Road	2 a/2	30.00	0.15	0.60	11.34	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	L/S - Roof - dms	2×1	29.50	0.15	0.65	5.66 m³	
		2×1	32.50	0.15	0.60	5.81	
		2×1	31.00	0.15	0.60	5.58	
		2×1	30.00	0.15	0.55	5.85	
					Total	147.90 m³	
					Use to	147.50 m³	
					@	6371.66/-	939,819.85
(4)	Providg and removing, centering, shuttering, propping etc and removal of form work for vertical simple duct on walls at any thickness, including allowances. pilaster, buttresses, plinth cills and string course, casting all						

M. A. R. 57 (Rule 116) **No. D**
Measurement Book

225922

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	material, labour, complete as per specifications of drawings by Engineer in charge of the work.						
				qty vide	mb.no.	1787/13-14	
					p.no	178651	2,22,251.05
						= 715.60 m² @ 310.58/m²	
5)	Providg mild steel reinforcement for RCC works, including stirrups cutting, bending, hooks, placing in position, lapping and welding wherever required, tying with binding wire and embedding in adjoining members, wherever necessary, complete as per						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Specifications and directions of Engineer-in-charge of the work.						
	Qty vide MB no 1787/13-14						
	Pg no (3)						
						64243.47/Rm	5,79,475.68
6)	Providing and laying reinforced cement concrete (Nominal) mix C.C 1:1½:3 using 20mm nd down size graded granite metal using M450-10mm dia. steel bars @ c/c both ways and complete as per specifications and directions of Engineer-in-charge work.						
	Rd - Bakasura Hanuma's Road - Rly	1	30.00	0.90	-	27.00	

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

225923

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cross-Road - Rly	1	17.00	0.90	-	15.39	
		1	30.00	0.90	-	27.00	
		1	12.00	0.90	-	10.80	
	Cross - Road	1	33.30	0.90	-	29.97	
	2nd Cross - Rly	2	30.00	0.90	-	54.00	
		2	12.50	0.90	-	22.50	
	3rd Cross - Road	2	30.00	0.90	-	54.00	
		1	29.00	0.90	-	26.10	
	4th - Cross - Road	1	32.30	0.95	-	24.23	
		1	33.00	0.95	-	25.20	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CROSS-Road	1	30.00	0.39	-	22.50 Sqm	
		1	24.00	0.35	-	18.00	
	Missing Link	1	14.00	0.75	-	10.50	
		1	7.42	0.35	-	5.57	
						370.80 Sqm	
						@ 16.80 /m	G.22,944.00
(7)	cement-concrete pavement. Construction of unreinforced plain cement concrete pavement, thickness as per design, over prepared sub-base using ope cement or any other type as per clause 1.2.1.2 design mix M20/M.20 using 25mm nd down size graded granite metal Coarse sand and fine aggregate. With superplasticizer, @ 31/m						

M. A. R. 57 (Rule 116) No. D

Measurement Book

225924

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Conforming to IS-9103-1999 Re-affirmed 2009, mixed in a concrete of mixer of not less than 0.40 m3 Capacity. and of appropriate weight batches as per approved mix design, laid in approved layed tode from work, spreading the mixes with shovels, rakes, compacted using needle, screed, and plate vibrator and finished in a continuous operations including provision of contractor, Responsible for the complete M.20. Concrete						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	fir-concrete Road	1	15.90	3.643.8/2	0.17	10.49	
		1	15.00	3.8+4.3/2	0.15	9.23	
	CROSS-Road	1	15.00	2.3+3.0/2	0.17	5.48	
	2nd CROSS-Road - B/3	1	16.00	2.0+3.0/2	0.15	3.60	
		1	15.00	5.6+6.7/2	0.17	15.68	
		1	15.00	6.7+6.7/2	0.16	16.08	
	CROSS-Road	1	12.00	6.7+6.7/2	0.16	12.86	
		1	15.00	6.4+6.7/2	0.16	10.64	
		1	15.00	4.3+4.7/2	0.16	10.32	

M. A. R. 57 (Rule 116) No. D

Measurement Book

225925

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd CROSS-Road	1	3.30	4.3+4.3/2	0.15	2.17	
		1	15.00	4.1+4.0/2	0.15	9.11	
		1	15.00	4.0+4.0/2	0.15	9.00	
		1	12.50	4.0+4.0/2	0.15	7.50	
		1	12.00	3.0+3.0/2	0.15	5.40	
		1	11.30	4.0+4.0/2	0.15	6.78	
	CROSS-Road - 1/3	2+1	5.60	0.35	0.70	2.74	
	2nd CROSS-Road - 2/3	2+1	4.10	0.35	0.70	2.01	
		2+1	3.80	0.35	0.70	1.86	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Double slab	2+1	4.40	0.35	0.70	2.16	
		1	5.60	1.30	0.25	2.10	
		1	4.10	1.30	0.25	1.33	
		1	3.30	1.30	0.25	1.43	
		1	4.40	1.30	0.25	1.65	
	drain Scale 1:10	2+1	24.00	0.15	0.65	4.68	
		1	5.60	0.30	0.10	0.42	
		1	4.10	0.50	0.10	0.21	
		1	3.80	0.30	0.10	0.29	
		1	4.40	0.30	0.15	0.33	
						155.12 sq.m	
					Add	155.12 sq.m	
					@	5508.82/-	854497.98

M. A. R. 57 (Rule 116) No. D

Measurement Book

225926

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5)	Vacuum-de-watering with vacuum pumps of dewatering and compaction with shuttering floating clubbed with floating disc - including costs of generators, dewatering machinery, screed, vibrators, power, floats, standard disc de with level and light.						
	a) C.C. Road -4)	1	15.90	$\frac{3.60+3.80}{2}$		58.83 sq.m	
		1	15.00	$\frac{3.80+4.00}{2}$		61.50	
	b) Cross-Road	1	15.00	$\frac{2.20+2.00}{2}$		32.25	
		1	16.00	$\frac{2.00+2.00}{2}$		24.00	

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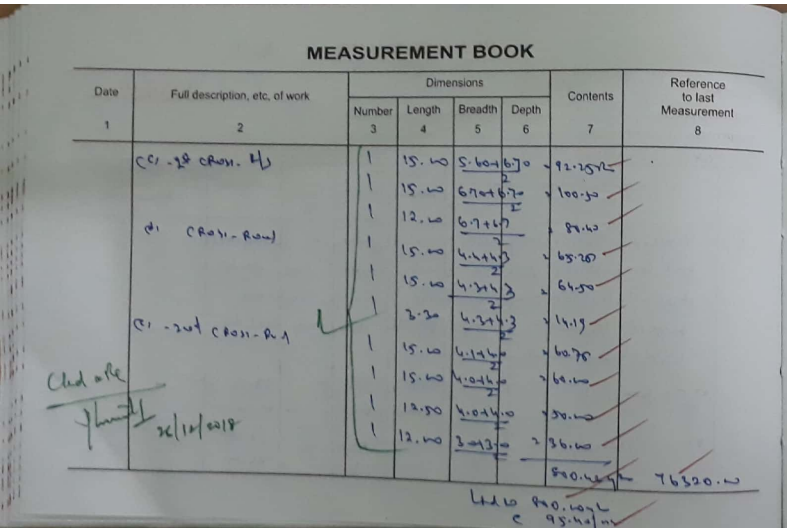


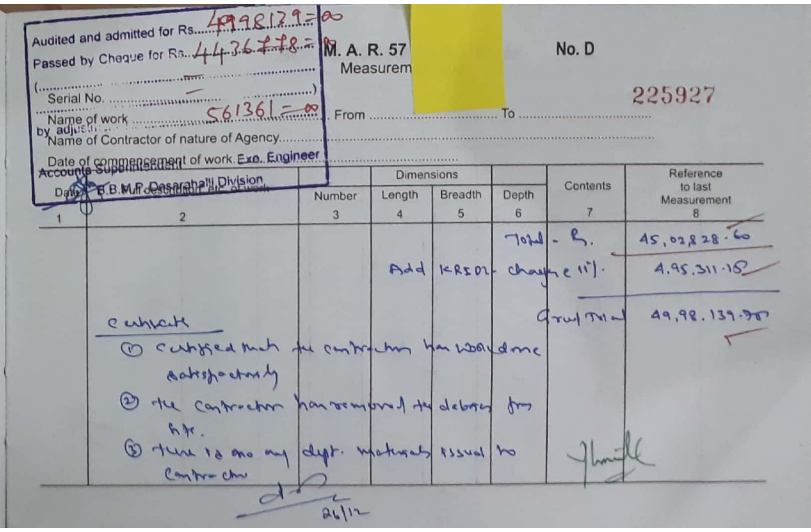
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CC - 2nd CROSS - R/L	1	15.00	5.60+6.70 / 2		× 92.25	
		1	15.00	6.70+6.70 / 2		× 100.50	
		1	12.00	6.7+6.7 / 2		× 80.40	
	CROSS - ROAD	1	15.00	4.4+4.3 / 2		× 65.25	
		1	15.00	4.3+4.3 / 2		× 64.50	
		1	3.30	4.3+4.3 / 2		× 14.19	
	CC - 2nd CROSS - R/L	1	15.00	4.4+4.0 / 2		× 60.75	
		1	15.00	4.0+4.0 / 2		× 60.00	
		1	12.50	4.0+4.0 / 2		× 50.00	
		1	12.00	3.0+3.0 / 2		× 36.00	
						890.44	76320.00

Add 890.44 @ 85.44/m

Chd = Ile

26/12/2018



Audited and admitted for Rs. 4998129=00

Passed by Cheque for Rs. 4436778=00

(Serial No. —)

Name of work ... by adjustment 561351=00

Name of Contractor or nature of Agency

Date of commencement of work Exe. Engineer

Accounts Superintendent

Dated C.B.M.P. Devarahalli Division

M. A. R. 57 Measurem

No. D

225927

From ... To ...

Number	Length	Breadth	Depth	Contents	Reference to last Measurement
3	4	5	6	7	8
			Total - Rs.		45,02,828.60
		Add	10% Increase		4,95,311.15
			Grand Total		49,98,139.75

certificate

(1) certified that the contractor has executed the work satisfactorily

(2) the contractor has remitted the labour cess to the Govt.

(3) there is no any dept. materials issued to contractor

26/12

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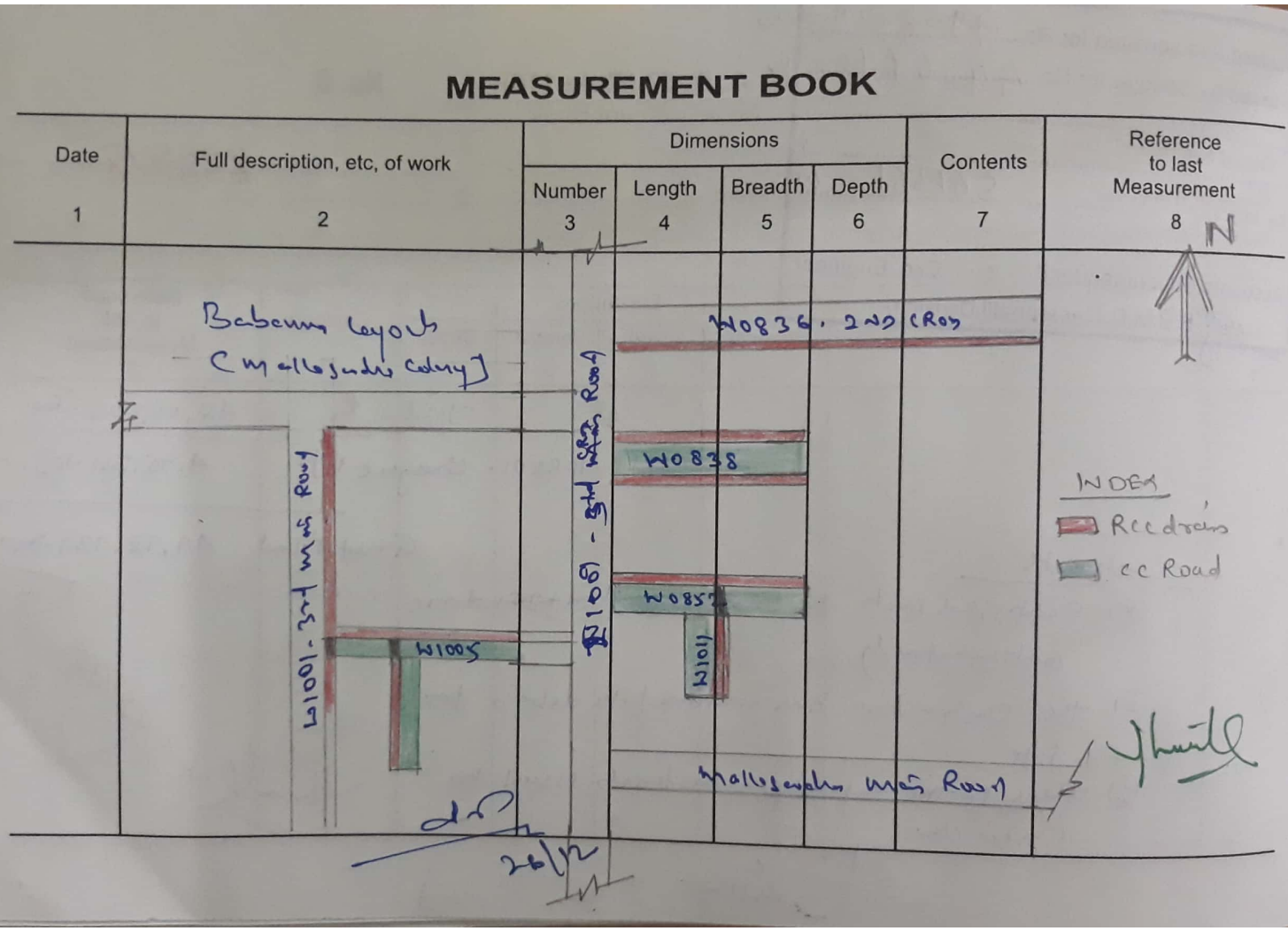
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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